

Glu Arg Tyr Asp Met Ser Gly Ala Arg Leu Ala Leu Thr Leu Cys Val
15 20 25

Thr Lys Ala Arg Glu Gly Ser Glu Val Asp Met Glu Ala Leu Glu Arg
30 35 40 45

Met Phe Arg Tyr Leu Lys Phe Glu Ser Thr Met Lys Arg Asp Pro Thr
50 55 60

Ala Gln Gln Phe Leu Glu Glu Leu Asp Glu Phe Gln Gln Thr Ile Asp
65 70 75

Asn Trp Glu Glu Pro Val Ser Cys Ala Phe Val Val Leu Met Ala His
80 85 90

Gly Glu Glu Gly Leu Leu Lys Gly Glu Asp Glu Lys Met Val Arg Leu
95 100 105

Glu Asp Leu Phe Glu Val Leu Asn Asn Lys Asn Cys Lys Ala Leu Arg
110 115 120 125

Gly Lys Pro Lys Val Tyr Ile Ile Gln Ala Cys Arg Gly Glu His Arg
130 135 140

Asp Pro Gly Glu Glu Leu Arg Gly Asn Glu Glu Leu Gly Gly Asp Glu
145 150 155

Glu Leu Gly Gly Asp Glu Val Ala Val Leu Lys Asn Asn Pro Gln Ser
160 165 170

Ile Pro Thr Tyr Thr Asp Thr Leu His Ile Tyr Ser Thr Val Glu Gly
175 180 185

Tyr Leu Ser Tyr Arg His Asp Glu Lys Gly Ser Gly Phe Ile Gln Thr
190 195 200 205

Leu Thr Asp Val Phe Ile His Lys Lys Gly Ser Ile Leu Glu Leu Thr
210 215 220

Glu Glu Ile Thr Arg Leu Met Ala Asn Thr Glu Val Met Gln Glu Gly
225 230 235

Lys Pro Arg Lys Val Asn Pro Glu Val Gln Ser Thr Leu Arg Lys Lys
240 245 250

Leu Tyr Leu Gln
255

<210> 3
<211> 5
<212> PRT
<213> Mus musculus

<400> 3
Gln Ala Cys Arg Gly
1 5

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<220>  
<221> CDS  
<222> (49) ... (774)
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<400> 4																	57
aggatcagac aaggggtgctg agagccggga ctcacaacca aaggagaa atg agc aat																	
Met Ser Asn																	
1																	
ccg cgg tct ttg gaa gag gag aaa tat gat atg tca ggt gcc gcg ctg																	105
Pro Arg Ser Leu Glu Glu Lys Tyr Asp Met Ser Gly Ala Ala Leu																	
5					10					15							
gcc cta ata ctg tgt gtc acc aaa gcc cgg gaa ggt tcc gaa gaa gac																	153
Ala Leu Ile Leu Cys Val Thr Lys Ala Arg Glu Gly Ser Glu Glu Asp																	
20				25				30				35					
ctg gat gct ctg gaa cac atg ttt cgg cag ctg aga ttc gaa agc acc																	201
Leu Asp Ala Leu Glu His Met Phe Arg Gln Leu Arg Phe Glu Ser Thr																	
					40				45				50				
atg aaa aga gac ccc act gcc gag caa ttc cag gaa gag ctg gaa aaa																	249
Met Lys Arg Asp Pro Thr Ala Glu Gln Phe Gln Glu Glu Leu Glu Lys																	
55					60					65							
ttc cag cag gcc atc gat tcc cgg gaa gat ccc gtc agt tgt gcc ttc																	297
Phe Gln Gln Ala Ile Asp Ser Arg Glu Asp Pro Val Ser Cys Ala Phe																	
70					75					80							
gtg gta ctc atg gct cac ggg agg gaa ggc ttc ctc aag gga gaa gat																	345
Val Val Leu Met Ala His Gly Arg Glu Gly Phe Leu Lys Gly Glu Asp																	
85				90					95								
ggg gag atg gtc aag ctg gag aat ctc ttc gag gcc ctg aac aac aag																	393
Gly Glu Met Val Lys Leu Glu Asn Leu Phe Glu Ala Leu Asn Asn Lys																	
100				105					110					115			
aac tgc cag gcc ctg cga gct aag ccc aag gtg tac atc ata cag gcc																	441
Asn Cys Gln Ala Leu Arg Ala Lys Pro Lys Val Tyr Ile Ile Gln Ala																	
					120				125				130				
tgt cga gga gaa caa agg gac ccc ggt gaa aca gta ggt gga gat gag																	489
Cys Arg Gly Glu Gln Arg Asp Pro Gly Glu Thr Val Gly Gly Asp Glu																	
135					140					145							
att gtg atg gtc atc aaa gac agc cca caa acc atc cca aca tac aca																	537
Ile Val Met Val Ile Lys Asp Ser Pro Gln Thr Ile Pro Thr Tyr Thr																	
150				155					160								

gat gcc ttg cac gtt tat tcc acg gta gag gga tac atc gcc tac cga 585
 Asp Ala Leu His Val Tyr Ser Thr Val Glu Gly Tyr Ile Ala Tyr Arg
 165 170 175

cat gat cag aaa ggc tca tgc ttt atc cag acc ctg gtg gat gtg ttc 633
 His Asp Gln Lys Gly Ser Cys Phe Ile Gln Thr Leu Val Asp Val Phe
 180 185 190 195

acg aag agg aaa gga cat atc ttg gaa ctt ctg aca gag gtg acc cgg 681
 Thr Lys Arg Lys Gly His Ile Leu Glu Leu Leu Thr Glu Val Thr Arg
 200 205 210

cgg atg gca gaa gca gag ctg gtt caa gaa gga aaa gca agg aaa acg 729
 Arg Met Ala Glu Ala Glu Leu Val Gln Glu Gly Lys Ala Arg Lys Thr
 215 220 225

aac cct gaa atc caa agc acc ctc cgg aaa cgg ctg tat ctg cag 774
 Asn Pro Glu Ile Gln Ser Thr Leu Arg Lys Arg Leu Tyr Leu Gln
 230 235 240

tag 777

<210> 5
 <211> 242
 <212> PRT
 <213> Homo sapien

<400> 5
 Met Ser Asn Pro Arg Ser Leu Glu Glu Glu Lys Tyr Asp Met Ser Gly
 1 5 10 15
 Ala Ala Leu Ala Leu Ile Leu Cys Val Thr Lys Ala Arg Glu Gly Ser
 20 25 30
 Glu Glu Asp Leu Asp Ala Leu Glu His Met Phe Arg Gln Leu Arg Phe
 35 40 45
 Glu Ser Thr Met Lys Arg Asp Pro Thr Ala Glu Gln Phe Gln Glu Glu
 50 55 60
 Leu Glu Lys Phe Gln Gln Ala Ile Asp Ser Arg Glu Asp Pro Val Ser
 65 70 75 80
 Cys Ala Phe Val Val Leu Met Ala His Gly Arg Glu Gly Phe Leu Lys
 85 90 95
 Gly Glu Asp Gly Glu Met Val Lys Leu Glu Asn Leu Phe Glu Ala Leu
 100 105 110
 Asn Asn Lys Asn Cys Gln Ala Leu Arg Ala Lys Pro Lys Val Tyr Ile
 115 120 125
 Ile Gln Ala Cys Arg Gly Glu Gln Arg Asp Pro Gly Glu Thr Val Gly
 130 135 140
 Gly Asp Glu Ile Val Met Val Ile Lys Asp Ser Pro Gln Thr Ile Pro
 145 150 155 160
 Thr Tyr Thr Asp Ala Leu His Val Tyr Ser Thr Val Glu Gly Tyr Ile
 165 170 175
 Ala Tyr Arg His Asp Gln Lys Gly Ser Cys Phe Ile Gln Thr Leu Val
 180 185 190
 Asp Val Phe Thr Lys Arg Lys Gly His Ile Leu Glu Leu Leu Thr Glu
 195 200 205
 Val Thr Arg Arg Met Ala Glu Ala Glu Leu Val Gln Glu Gly Lys Ala

tgt cga gga gaa caa agg gac ccc ggt gaa aca gta ggt gga gat gag 488
Cys Arg Gly Glu Gln Arg Asp Pro Gly Glu Thr Val Gly Gly Asp Glu
135 140 145

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<210> 7
<211> 230
<212> PRT
<213> Homo sapien
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<400> 7															
Met	Ser	Asn	Pro	Arg	Ser	Leu	Glu	Glu	Glu	Lys	Tyr	Asp	Met	Ser	Gly
1				5					10					15	
Ala	Arg	Leu	Ala	Leu	Ile	Leu	Cys	Val	Thr	Lys	Ala	Arg	Glu	Gly	Ser
		20						25					30		
Glu	Glu	Asp	Leu	Asp	Ala	Leu	Glu	His	Met	Phe	Arg	Gln	Leu	Arg	Phe
		35					40					45			
Glu	Ser	Thr	Met	Lys	Arg	Asp	Pro	Thr	Ala	Glu	Gln	Phe	Gln	Glu	Glu
		50				55					60				
Leu	Glu	Lys	Phe	Gln	Gln	Ala	Ile	Asp	Ser	Arg	Glu	Asp	Pro	Val	Ser
65				70						75				80	
Cys	Ala	Phe	Val	Val	Leu	Met	Ala	His	Gly	Arg	Glu	Gly	Phe	Leu	Lys
			85						90					95	
Gly	Glu	Asp	Gly	Glu	Met	Val	Lys	Leu	Glu	Asn	Leu	Phe	Glu	Ala	Leu
			100					105					110		
Asn	Asn	Lys	Asn	Cys	Gln	Ala	Leu	Arg	Ala	Lys	Pro	Lys	Val	Tyr	Ile
		115					120					125			
Ile	Gln	Ala	Cys	Arg	Gly	Glu	Gln	Arg	Asp	Pro	Gly	Glu	Thr	Val	Gly
		130			135						140				
Gly	Asp	Glu	Ile	Val	Met	Val	Ile	Lys	Asp	Ser	Pro	Gln	Thr	Ile	Pro
145					150					155					160
Thr	Tyr	Thr	Asp	Ala	Leu	His	Val	Tyr	Ser	Thr	Val	Glu	Gly	Pro	Thr

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                165                170                175
Pro Phe Gln Asp Pro Leu Tyr Leu Pro Ser Glu Ala Pro Pro Asn Pro
                180                185                190
Pro Leu Trp Asn Ser Gln Asp Thr Ser Pro Thr Asp Met Ile Arg Lys
                195                200                205
Ala His Ala Leu Ser Arg Pro Trp Trp Met Cys Ser Arg Arg Gly Lys
                210                215                220
Asp Ile Ser Trp Asn Phe
225                230

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<210> 8
<211> 693
<212> DNA
<213> Homo sapien

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<220>
<221> CDS
<222> (49)...(690)

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<400> 8
aggatcagac aaggggtgctg agagccggga ctcacaacca aaggagaa atg agc aat      57
                                         Met Ser Asn
                                         1

ccg cgg tct ttg gaa gag gag aaa tat gat atg tca ggt gcc cgc ctg      105
Pro Arg Ser Leu Glu Glu Glu Lys Tyr Asp Met Ser Gly Ala Arg Leu
   5                10                15

gcc cta ata ctg tgt gtc acc aaa gcc cgg gaa ggt tcc gaa gaa gaa      153
Ala Leu Ile Leu Cys Val Thr Lys Ala Arg Glu Gly Ser Glu Glu Glu
  20                25                30                35

gag ctg gaa aaa ttc cag cag gcc atc gat tcc cgg gaa gat ccc gtc      201
Glu Leu Glu Lys Phe Gln Gln Ala Ile Asp Ser Arg Glu Asp Pro Val
          40                45                50

agt tgt gcc ttc gtg gta ctc atg gct cac ggg agg gaa ggc ttc ctc      249
Ser Cys Ala Phe Val Val Leu Met Ala His Gly Arg Glu Gly Phe Leu
          55                60                65

aag gga gaa gat ggg gag atg gtc aag ctg gag aat ctc ttc gag gcc      297
Lys Gly Glu Asp Gly Glu Met Val Lys Leu Glu Asn Leu Phe Glu Ala
          70                75                80

ctg aac aac aag aac tgc cag gcc ctg cga gct aag ccc aag gtg tac      345
Leu Asn Asn Lys Asn Cys Gln Ala Leu Arg Ala Lys Pro Lys Val Tyr
          85                90                95

atc ata cag gcc tgt cga gga gaa caa agg gac ccc ggt gaa aca gta      393
Ile Ile Gln Ala Cys Arg Gly Glu Gln Arg Asp Pro Gly Glu Thr Val
100                105                110                115

ggg gga gat gag att gtg atg gtc atc aaa gac agc cca caa acc atc      441
Gly Gly Asp Glu Ile Val Met Val Ile Lys Asp Ser Pro Gln Thr Ile
          120                125                130

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FOR "E0668650"

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<210> 9
<211> 214
<212> PRT
<213> Homo sapien
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<400> 9																	
Met	Ser	Asn	Pro	Arg	Ser	Leu	Glu	Glu	Glu	Lys	Tyr	Asp	Met	Ser	Gly		
1				5					10					15			
Ala	Arg	Leu	Ala	Leu	Ile	Leu	Cys	Val	Thr	Lys	Ala	Arg	Glu	Gly	Ser		
		20						25					30				
Glu	Glu	Glu	Glu	Leu	Glu	Lys	Phe	Gln	Gln	Ala	Ile	Asp	Ser	Arg	Glu		
		35					40					45					
Asp	Pro	Val	Ser	Cys	Ala	Phe	Val	Val	Leu	Met	Ala	His	Gly	Arg	Glu		
	50					55					60						
Gly	Phe	Leu	Lys	Gly	Glu	Asp	Gly	Glu	Met	Val	Lys	Leu	Glu	Asn	Leu		
65					70					75				80			
Phe	Glu	Ala	Leu	Asn	Asn	Lys	Asn	Cys	Gln	Ala	Leu	Arg	Ala	Lys	Pro		
				85					90					95			
Lys	Val	Tyr	Ile	Ile	Gln	Ala	Cys	Arg	Gly	Glu	Gln	Arg	Asp	Pro	Gly		
			100					105					110				
Glu	Thr	Val	Gly	Gly	Asp	Glu	Ile	Val	Met	Val	Ile	Lys	Asp	Ser	Pro		
		115					120					125					
Gln	Thr	Ile	Pro	Thr	Tyr	Thr	Asp	Ala	Leu	His	Val	Tyr	Ser	Thr	Val		
						135					140						
Glu	Gly	Tyr	Ile	Ala	Tyr	Arg	His	Asp	Gln	Lys	Gly	Ser	Cys	Phe	Ile		
145					150					155				160			
Gln	Thr	Leu	Val	Asp	Val	Phe	Thr	Lys	Arg	Lys	Gly	His	Ile	Leu	Glu		
				165					170					175			
Leu	Leu	Thr	Glu	Val	Thr	Arg	Arg	Met	Ala	Glu	Ala	Glu	Leu	Val	Gln		
			180					185					190				
Glu	Gly	Lys	Ala	Arg	Lys	Thr	Asn	Pro	Glu	Ile	Gln	Ser	Thr	Leu	Arg		

195 200 205
 Lys Arg Leu Tyr Leu Gln
 210

<210> 10
 <211> 22
 <212> PRT
 <213> Mus musculus

<400> 10
 Met Ala Glu Asn Lys His Pro Asp Lys Pro Leu Lys Val Leu Glu Gln
 1 5 10 15
 Leu Gly Lys Glu Val Leu
 20

<210> 11
 <211> 36
 <212> PRT
 <213> Mus musculus

<400> 11
 Thr Glu Tyr Leu Glu Lys Leu Val Gln Ser Asn Val Leu Lys Leu Lys
 1 5 10 15
 Glu Glu Asp Lys Gln Lys Phe Asn Asn Ala Glu Arg Ser Asp Lys Arg
 20 25 30

Trp Val Phe Val
 35

<210> 12
 <211> 70
 <212> PRT
 <213> Mus musculus

<400> 12
 Asp Ala Met Lys Lys Lys His Ser Lys Val Gly Glu Met Leu Leu Gln
 1 5 10 15

Thr Phe Phe Ser Val Asp Pro Gly Ser His His Gly Glu Ala Asn Leu
 20 25 30

Glu Met Glu Glu Pro Glu Glu Ser Leu Asn Thr Leu Lys Leu Cys Ser
 35 40 45

Pro Glu Glu Phe Thr Arg Leu Cys Arg Glu Lys Thr Gln Glu Ile Tyr
 50 55 60

Pro Ile Lys Glu Ala Asn
 65 70

FOOAT "E0668660

<400> 13
Gly Arg Thr Arg Lys Ala Leu Ile Ile Cys Asn Thr Glu Phe Lys His
1 5 10 15

Leu Ser Leu Arg Tyr Gly Ala Asn Phe Asp Ile Ile Gly Met Lys Gly
20 25 30

Leu Leu Glu Asp Leu Gly Tyr Asp Val Val Val Lys Glu Glu Leu Thr
35 40 45

Ala Glu Gly Met Glu Ser Glu Met Asp Lys Phe Ala Ala Leu
50 55 60

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<210> 14
<211> 94
<212> PRT
<213> Mus musculus

<400> 14
Ser Glu His Gln Thr Ser Asp Ser Thr Phe Leu Val Leu Met Ser His
 1              5              10              15
Gly Thr Leu His Gly Ile Cys Gly Thr Met His Ser Glu Lys Thr Pro
      20              25              30
Asp Val Leu Gln Tyr Asp Thr Ile Tyr Gln Ile Phe Asn Asn Cys His
      35              40              45
Cys Pro Gly Leu Arg Asp Lys Pro Lys Val Ile Ile Val Gln Ala Cys
      50              55              60
Arg Gly Gly Asn Ser Gly Glu Met Trp Ile Arg Glu Ser Ser Lys Pro
      65              70              75              80
Gln Leu Cys Arg Gly Val Asp Leu Pro Arg Asn Met Glu Ala
      85              90

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<210> 15
<211> 89
<212> PRT
<213> Mus musculus

<400> 15
Asp Ala Val Lys Leu Ser His Val Glu Lys Asp Phe Ile Ala Phe Tyr
 1             5             10             15

Ser Thr Thr Pro His His Leu Ser Tyr Arg Asp Lys Thr Gly Gly Ser
          20             25             30

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<210> 17

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<210> 20
<211> 90
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<212> PRT
<213> Mus musculus

<400> 20
Asn Asn Ser Ile Thr Lys Ala His Val Glu Thr Asp Phe Ile Ala Phe
1 5 10 15
Lys Ser Ser Thr Pro His Asn Ile Ser Trp Arg Val Gly Lys Thr Gly
20 25 30
Ser Leu Phe Ile Ser Lys Leu Ile Asp Cys Phe Lys Lys Tyr Cys Trp
35 40 45
Cys Tyr His Leu Glu Glu Ile Phe Arg Lys Val Gln His Ser Phe Glu
50 55 60
Val Pro Gly Glu Leu Thr Gln Met Pro Thr Ile Glu Arg Val Ser Met
65 70 75 80
Thr Arg Tyr Phe Tyr Leu Phe Pro Gly Asn
85 90

<210> 21
<211> 119
<212> PRT
<213> Mus musculus

<400> 21
Met Ala Asp Lys Ile Leu Arg Ala Lys Arg Lys Gln Phe Ile Asn Ser
1 5 10 15
Val Ser Ile Gly Thr Ile Asn Gly Leu Leu Asp Glu Leu Leu Glu Lys
20 25 30
Arg Val Leu Asn Gln Glu Glu Met Asp Lys Ile Lys Leu Ala Asn Ile
35 40 45
Thr Ala Met Asp Lys Ala Arg Asp Leu Cys Asp His Val Ser Lys Lys
50 55 60
Gly Pro Gln Ala Ser Gln Ile Phe Ile Thr Tyr Ile Cys Asn Glu Asp
65 70 75 80
Cys Tyr Leu Ala Gly Ile Leu Glu Leu Gln Ser Ala Pro Ser Ala Glu
85 90 95
Thr Phe Val Ala Thr Glu Asp Ser Lys Gly Gly His Pro Ser Ser Ser
100 105 110
Glu Thr Lys Glu Glu Gln Asn
115

<210> 22

TOOAT" E066660

<211> 11
 <212> PRT
 <213> Mus musculus

<400> 22
 Lys Glu Asp Gly Thr Phe Pro Gly Leu Thr Gly
 1 5 10

<210> 23
 <211> 28
 <212> PRT
 <213> Mus musculus

<400> 23
 Thr Leu Lys Phe Cys Pro Leu Glu Lys Ala Gln Lys Leu Trp Lys Glu
 1 5 10 15

Asn Pro Ser Glu Ile Tyr Pro Ile Met Asn Thr Thr
 20 25

<210> 24
 <211> 62
 <212> PRT
 <213> Mus musculus

<400> 24
 Thr Arg Thr Arg Leu Ala Leu Ile Ile Cys Asn Thr Glu Phe Gln His
 1 5 10 15

Leu Ser Pro Arg Val Gly Ala Gln Val Asp Leu Arg Glu Met Lys Leu
 20 25 30

Leu Leu Glu Asp Leu Gly Tyr Thr Val Lys Val Lys Glu Asn Leu Thr
 35 40 45

Ala Leu Glu Met Val Lys Glu Val Lys Glu Phe Ala Ala Cys
 50 55 60

<210> 25
 <211> 77
 <212> PRT
 <213> Mus musculus

<400> 25
 Pro Glu His Lys Thr Ser Asp Ser Thr Phe Leu Val Phe Met Ser His
 1 5 10 15

Gly Ile Gln Glu Gly Ile Cys Gly Thr Thr Tyr Ser Asn Glu Val Ser
 20 25 30

Asp Ile Leu Lys Val Asp Thr Ile Phe Gln Met Met Asn Thr Leu Lys
 35 40 45

FOOAT" 000000

Cys Pro Ser Leu Lys Asp Lys Pro Lys Val Ile Ile Ile Gln Ala Cys
 50 55 60

Arg Gly Glu Lys Gln Gly Val Val Leu Leu Lys Asp Ser
 65 70 75

<210> 26
 <211> 105
 <212> PRT
 <213> Mus musculus

<400> 26
 Val Arg Asp Ser Glu Glu Asp Phe Leu Thr Asp Ala Ile Phe Glu Asp
 1 5 10 15

Asp Gly Ile Lys Lys Ala His Ile Glu Lys Asp Phe Ile Ala Phe Cys
 20 25 30

Ser Ser Thr Pro Asp Asn Val Ser Trp Arg His Pro Val Arg Gly Ser
 35 40 45

Leu Phe Ile Glu Ser Leu Ile Lys His Met Lys Glu Tyr Ala Trp Ser
 50 55 60

Cys Asp Leu Glu Asp Ile Phe Arg Lys Val Arg Phe Ser Phe Glu Gln
 65 70 75 80

Pro Glu Phe Arg Leu Gln Met Pro Thr Ala Asp Arg Val Thr Leu Thr
 85 90 95

Lys Arg Phe Tyr Leu Phe Pro Gly His
 100 105

<210> 27
 <211> 58
 <212> PRT
 <213> Mus musculus

<400> 27
 Met Glu Asn Asn Lys Thr Ser Val Asp Ser Lys Ser Ile Asn Asn Phe
 1 5 10 15

Glu Val Lys Thr Ile His Gly Ser Lys Ser Val Asp Ser Gly Ile Tyr
 20 25 30

Leu Asp Ser Ser Tyr Lys Met Asp Tyr Pro Glu Met Gly Ile Cys Ile
 35 40 45

Ile Ile Asn Asn Lys Asn Phe His Lys Ser
 50 55

FOOAT "E066660

<400> 31
Glu Thr Asp Ser
1

<210> 32
 <211> 7
 <212> PRT
 <213> Mus musculus

<400> 32
 Thr Asp Glu Glu Met Ala Cys
 1 5

<210> 33
 <211> 42
 <212> PRT
 <213> Mus musculus

<400> 33
 Gln Lys Ile Pro Val Glu Ala Asp Phe Leu Tyr Ala Tyr Ser Thr Ala
 1 5 10 15

Pro Gly Tyr Tyr Ser Trp Arg Asn Ser Lys Asp Gly Ser Trp Phe Ile
 20 25 30

Gln Ser Leu Cys Ser Met Leu Lys Leu Tyr
 35 40

<210> 34
 <211> 51
 <212> PRT
 <213> Mus musculus

<400> 34
 Ala His Lys Leu Glu Phe Met His Ile Leu Thr Arg Val Asn Arg Lys
 1 5 10 15

Val Ala Thr Glu Phe Glu Ser Phe Ser Leu Asp Ser Thr Phe His Ala
 20 25 30

Lys Lys Gln Ile Pro Cys Ile Val Ser Met Leu Thr Lys Glu Leu Tyr
 35 40 45

Phe Tyr His
 50

<210> 35
 <211> 81
 <212> PRT
 <213> Mus musculus

<400> 35
 Met Thr Asp Asp Gln Asp Cys Ala Ala Glu Leu Glu Lys Val Asp Ser
 1 5 10 15

Ser Ser Glu Asp Gly Val Asp Ala Lys Pro Asp Arg Ser Ser Ile Ile

FOOAT" E0668660

20 25 30
 Ser Ser Ile Leu Leu Lys Lys Lys Arg Asn Ala Ser Ala Gly Pro Val
 35 40 45
 Arg Thr Gly Arg Asp Arg Val Pro Thr Tyr Leu Tyr Arg Met Asp Phe
 50 55 60
 Gln Lys Met Gly Lys Cys Ile Ile Ile Asn Asn Lys Asn Phe Asp Lys
 65 70 75 80
 Ala

<210> 36
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 36
 Thr Gly Met Asp Val Arg Asn Gly Thr Asp Lys Asp Ala Gly Ala Leu
 1 5 10 15
 Phe Lys Cys Phe Gln Asn Leu Gly Phe Glu Val Thr Val His Asn Asp
 20 25 30
 Cys Ser Cys Ala Lys Met Gln Asp Leu Leu Arg Lys Ala Ser Glu
 35 40 45

<210> 37
 <211> 28
 <212> PRT
 <213> Mus musculus

<400> 37
 Glu Asp His Ser Asn Ser Ala Cys Phe Ala Cys Val Leu Leu Ser His
 1 5 10 15
 Gly Glu Glu Asp Leu Ile Tyr Gly Lys Asp Gly Val
 20 25

<210> 38
 <211> 39
 <212> PRT
 <213> Mus musculus

<400> 38
 Thr Pro Ile Lys Asp Leu Thr Ala His Phe Arg Gly Asp Arg Cys Lys
 1 5 10 15
 Thr Leu Leu Glu Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Arg Gly
 20 25 30

T00211"K066660

<210> 42
<211> 41

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<400> 45
Ile Glu Ile Gln Thr Leu Thr Gly Leu Phe Lys Gly Asp Lys Cys Gln
 1                5                10                15

Ser Leu Val Gly Lys Pro Lys Ile Phe Ile Ile Gln Ala Cys Arg Gly
      20                25                30

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Ser Gln His Asp Val Pro Val Val Pro Leu Asp Met Val Asp His Gln
 35 40 45

Thr Asp Lys
 50

<210> 46
 <211> 52
 <212> PRT
 <213> Mus musculus

<400> 46
 Asn Val Thr Gln Val Asp Ala Ala Ser Val Tyr Thr Leu Pro Ala Gly
 1 5 10 15

Ala Asp Phe Leu Met Cys Tyr Ser Val Ala Glu Gly Tyr Tyr Ser His
 20 25 30

Arg Glu Thr Val Asn Gly Ser Trp Tyr Ile Gln Asp Leu Cys Glu Met
 35 40 45

Leu Ala Arg Tyr
 50

<210> 47
 <211> 55
 <212> PRT
 <213> Mus musculus

<400> 47
 Gly Ser Ser Leu Glu Phe Thr Glu Leu Leu Thr Leu Val Asn Arg Lys
 1 5 10 15

Val Ser Gln Arg Arg Val Asp Phe Cys Lys Asp Pro Asp Ala Ile Gly
 20 25 30

Lys Lys Gln Val Pro Cys Phe Ala Ser Met Leu Thr Lys Lys Leu His
 35 40 45

Phe Cys Pro Lys Pro Ser Lys
 50 55

<210> 48
 <211> 250
 <212> PRT
 <213> Mus musculus

<400> 48
 Met Asp Phe Gln Ser Cys Leu Asp Ala Ile Ala Glu Glu Leu Gly Ser
 1 5 10 15

Glu Asp Leu Ala Ala Leu Lys Phe Leu Cys Leu Asp Tyr Ile Pro His

TOOFT "E0668660

```
<210> 49
<211> 54
<212> PRT
<213> Mus musculus
```

<400> 49
Arg Glu Asp Ile Thr Gln Leu Arg Lys Met Lys Asp Arg Lys Gly Thr
1 5 10 15
Asp Cys Asp Lys Glu Ala Leu Ser Lys Thr Phe Lys Glu Leu His Phe

Thr Trp Tyr Ile Gln Ser Leu Cys Gln Ser Leu Arg Glu Arg Cys
35 40 45

<210> 53
 <211> 19
 <212> PRT
 <213> Mus musculus

<400> 53
 Pro Gln Gly Asp Asp Ile Leu Ser Ile Leu Thr Gly Val Asn Tyr Asp
 1 5 10 15
 Val Ser Asn

<210> 54
 <211> 22
 <212> PRT
 <213> Mus musculus

<400> 54
 Lys Asp Asp Arg Arg Asn Lys Gly Lys Gln Met Pro Gln Pro Thr Phe
 1 5 10 15
 Thr Leu Arg Lys Lys Leu
 20

<210> 55
 <211> 260
 <212> PRT
 <213> Mus musculus

<400> 55
 Met Ala Ala Pro Ser Gly Arg Ser Gln Ser Ser Leu His Arg Lys Gly
 1 5 10 15
 Leu Met Ala Ala Asp Arg Arg Ser Arg Ile Leu Ala Val Cys Gly Met
 20 25 30
 His Pro Asp His Gln Glu Thr Leu Lys Lys Asn Arg Val Val Leu Ala
 35 40 45
 Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys Asp
 50 55 60
 Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Gly Gly Ser
 65 70 75 80
 Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly Pro
 85 90 95
 Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Arg Gln Gly
 100 105 110

FOOAT" E0666660

His Leu Glu Asp Leu Leu Leu Thr Thr Leu Ser Asp Ile Gln His Val
115 120 125

Leu Pro Pro Leu Ser Cys Asp Tyr Asp Thr Ser Leu Pro Phe Ser Val
130 135 140

Cys Glu Ser Cys Pro Pro His Lys Gln Leu Arg Leu Ser Thr Asp Ala
145 150 155 160

Thr Glu His Ser Leu Asp Asn Gly Asp Gly Pro Pro Cys Leu Leu Val
165 170 175

Lys Pro Cys Thr Pro Glu Phe Tyr Gln Ala His Tyr Gln Leu Ala Tyr
180 185 190

Arg Leu Gln Ser Gln Pro Arg Gly Leu Ala Leu Val Leu Ser Asn Val
195 200 205

His Phe Thr Gly Glu Lys Asp Leu Glu Phe Arg Ser Gly Gly Asp Val
210 215 220

Asp His Thr Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asn Val
225 230 235 240

His Val Leu His Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Leu Gln
245 250 255

Asn Phe Ala Gln
260

<210> 56
<211> 11
<212> PRT
<213> Mus musculus

<400> 56
Leu Pro Ala His Arg Val Thr Asp Ser Val Cys
1 5 10

<210> 57
<211> 18
<212> PRT
<213> Mus musculus

<400> 57
Val Ala Leu Leu Ser His Gly Val Glu Gly Gly Ile Tyr Gly Val Asp
1 5 10 15

Gly Lys

<210> 58

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<400> 58
Leu Leu Gln Leu Gln Glu Val Phe Arg Leu Phe Asp Asn Ala Asn Cys
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Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala Cys Arg
      20                      25                     30

Gly Asp Glu Thr Asp Arg Gly Val Asp Gln Gln Asp Gly Lys Asn His
      35                      40                     45

Thr Gln Ser Pro Gly Cys Glu Glu
      50                      55

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<400> 59
Ser Asp Ala Gly Lys Glu Glu Leu Met Lys Met Arg Leu Pro Thr Arg
  1                      5                      10                      15

Ser Asp Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Asn Ala Ala Met
      20                      25                      30

Arg Asn Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Thr Gln Val
      35                      40                      45

Phe Ser Glu Arg Ala
    50

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[illegible]

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<210> 61
<211> 35
<212> PRT
<213> Mus musculus
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<400> 61

Glu Gly Tyr Ala Pro Gly Thr Glu Phe His Arg Cys Lys Glu Met Ser
 1 5 10 15

Glu Tyr Cys Ser Thr Leu Cys Gln Gln Leu Tyr Leu Phe Pro Gly Tyr
 20 25 30

Pro Pro Thr
 35

<210> 62

<211> 31

<212> PRT

<213> Mus musculus

<400> 62

Met Glu Ser Glu Met Ser Asp Pro Gln Pro Leu Gln Glu Glu Arg Tyr
 1 5 10 15

Asp Met Ser Gly Ala Arg Leu Ala Leu Thr Leu Cys Val Thr Lys
 20 25 30

<210> 63

<211> 74

<212> PRT

<213> Mus musculus

<400> 63

Ala Arg Glu Gly Ser Glu Val Asp Met Glu Ala Leu Glu Arg Met Phe
 1 5 10 15

Arg Tyr Leu Lys Phe Glu Ser Thr Met Lys Arg Asp Pro Thr Ala Gln
 20 25 30

Gln Phe Leu Glu Glu Leu Asp Glu Phe Gln Gln Thr Ile Asp Asn Trp
 35 40 45

Glu Glu Pro Val Ser Cys Ala Phe Val Val Leu Met Ala His Gly Glu
 50 55 60

Glu Gly Leu Leu Lys Gly Glu Asp Glu Lys
 65 70

<210> 64

<211> 56

<212> PRT

<213> Mus musculus

<400> 64

Met Val Arg Leu Glu Asp Leu Phe Glu Val Leu Asn Asn Lys Asn Cys
 1 5 10 15

FOOAT "FOOAT" FOOAT

Lys Ala Leu Arg Gly Lys Pro Lys Val Tyr Ile Ile Gln Ala Cys Arg
 20 25 30

Gly Glu His Arg Asp Pro Gly Glu Glu Leu Arg Gly Asn Glu Glu Leu
 35 40 45

Gly Gly Asp Glu Glu Leu Gly Gly
 50 55

<210> 65
 <211> 53
 <212> PRT
 <213> Mus musculus

<400> 65
 Asp Glu Val Ala Val Leu Lys Asn Asn Pro Gln Ser Ile Pro Thr Tyr
 1 5 10 15
 Thr Asp Thr Leu His Ile Tyr Ser Thr Val Glu Gly Tyr Leu Ser Tyr
 20 25 30

Arg His Asp Glu Lys Gly Ser Gly Phe Ile Gln Thr Leu Thr Asp Val
 35 40 45

Phe Ile His Lys Lys
 50

<210> 66
 <211> 15
 <212> PRT
 <213> Mus musculus

<400> 66
 Ile Leu Glu Leu Thr Glu Glu Ile Thr Arg Leu Met Ala Asn Thr
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<210> 67
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 <212> PRT
 <213> Mus musculus

<400> 67
 Glu Val Met Gln Glu Gly Lys Pro
 1 5

<210> 68
 <211> 17
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<400> 68

FOOFT"FOOFOO

Gln

21

19

21

19

$\langle 220 \rangle$

<223> Primer derived from human caspase-14 cDNA

<400> 73

atcttctccc ttgaggaag

19

<210> 74

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer derived from human caspase-14 cDNA

<400> 74

atatgatatg tcaggtgccc g

21

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer derived from human caspase-14 cDNA

<400> 75

caaggtgtac atcatacagg

20

<210> 76

<211> 850

<212> DNA

<213> Mus musculus

<220>

<221> modified_base

<222> (537)

<223> Where n is Adenine, Cytosine, Guanin or Thymidine

<400> 76

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 tacctcagtc tctactcact aggagtcggt aacgtcctcc tttctatact atacagtcca 120
 cgggcgagac gggactgcga cacacagtgg tttcggggccc tcccaaggct ccatctgtac 180
 ctccgggacc ttgcgtacaa ggcaatggac tttaaacttt cgtggtactt ctccctaggg 240
 tggcgggtcg ttaaagacct tctcaacctt cttaaagtcg tctggtatct attaacctt 300
 ctcgacagtc cgacacggaa acaccatgag taccgtgtac cactccttcc ggaggagtcc 360
 cctcttctac tcttctacca gtctgatctt ctggaaaaac ttcagaactt gttgttcttg 420
 acgttccggg actctccgtt cggtttccac atgtagtagg tccgaacatc tcctctcgtg 480
 tctctggggc cactccttga tgcaccttta ctcttgatc cactctact ccttgancca 540
 cctctactcc aacgacacga gttcttgttg ggggtttcat agggttggat atgcctatgg 600
 gaggtgtaga tgaggtgcca tctcccatg gagaggatat ctgtactgct ctttccgaga 660
 ccgaagtagg tctgggactg cctacacaag taagtatttt ttcctaggta gaatcttgac 720
 tgtcttctct agtgggctga ataccgtttg tgctccact acgtccttcc ttttggttcc 780
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 cccgtcccta 850

<210> 77

<211> 16
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<400> 77
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 1 5 10 15

<210> 78
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 <212> PRT
 <213> Mus musculus

<400> 78
 Lys Arg Gly Gln Gly
 1 5

FOO2T" E0668660